

682.3 Construction Requirements

682.3.01 Personnel

Refer to Subsection 680.3.01.

682.3.02 Equipment

General Provisions 101 through 150.

682.3.03 Preparation

General Provisions 101 through 150.

682.3.04 Fabrication

General Provisions 101 through 150.

682.3.05 Construction

Perform construction according to Subsection 680.3.05.

682.3.06 Quality Acceptance

Refer to Subsection 680.3.06.

682.3.07 Contractor Warranty and Maintenance

See Subsection 680.1.03.C, “Manufacturer’s Guarantees.”

682.4 Measurement

Measurement will conform to Subsection 680.4.

682.4.01 Limits

General Provisions 101 through 150.

682.5 Payment

Payment will be made under:

Item No. 682	Cable, type____. AWG No.____	Per linear foot (meter)
Item No. 682	Multi-conductor cable, type____ (No. of each size and AWG No.)	Per linear foot (meter)
Item No. 682	Conduit-rigid (size)	Per linear foot (meter)
Item No. 682	Conduit-nonmetallic, type (size)	Per linear foot (meter)
Item No. 682	Conduit-encased, type (size) —(No. of ways)	Per linear foot (meter)
Item No. 682	Conduit-flexible (size)	Per linear foot (meter)
Item No. 682	Service pole riser	Per each
Item No. 682	Electrical junction box	Per each
Item No. 682	Lighting system	Per lump sum

682.5.01 Adjustments

General Provisions 101 through 150.

Section 683—High Level Lighting Systems

683.1 General Description

This work includes furnishing and installing lighting towers and high-level luminaires for roadway lighting systems, complete as indicated on the Plans.

683.1.01 Definitions

General Provisions 101 through 150.

683.1.02 Related References**A. Standard Specifications**

Section 680—Highway Lighting

Section 920—Lighting Standards and Towers

Section 921—Luminaires

B. Referenced Documents

General Provisions 101 through 150.

683.1.03 Submittals

Refer to Subsection 680.1.03.

683.2 Materials

Use materials that meet the requirements of Subsection 680.2 and the following:

Material	Specification
Lighting Standards and Towers	Section 920
Luminaires	Section 921

683.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

683.3 Construction Requirements**683.3.01 Personnel**

General Provisions 101 through 150.

683.3.02 Equipment

General Provisions 101 through 150.

683.3.03 Preparation

General Provisions 101 through 150.

683.3.04 Fabrication

General Provisions 101 through 150.

683.3.05 Construction

Perform construction according to Subsection 680.3.05.

683.3.06 Quality Acceptance

Refer to Subsection 680.3.06.

683.3.07 Contractor Warranty and Maintenance

Contractor warranty and maintenance shall conform to Section 680. Refer to Subsection 680.3.07

683.4 Measurement

Measurement will conform to Section 680.4.

683.4.01 Limits

General Provisions 101 through 150.

683.5 Payment

Payment will be made under:

Item No. 683	Lighting tower—steel ____ MH	Per each
Item No. 683	Lighting tower—steel ____ MH-including lowering equipment	Per each

Item No. 683	High level luminaire—type _____ watt _____ lamp	Per each
Item No. 683	Service car	Per each
Item No. 683	Lowering device power supply unit	Per each

683.5.01 Adjustments

General Provisions 101 through 150.

Section 685—Blast Cleaning Portland Cement Concrete Structures

685.1 General Description

This work includes blast cleaning Portland cement concrete surfaces and removing blasting residue from roadway and shoulder surfaces.

685.1.01 Definitions

General Provisions 101 through 150.

685.1.02 Related References

A. Standard Specifications

Section 109—Measurement and Payment

B. Related Documents

General Provisions 101 through 150.

685.1.03 Submittals

General Provisions 101 through 150.

685.2 Materials

General Provisions 101 through 150.

685.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

685.3 Construction Requirements

685.3.01 Personnel

General Provisions 101 through 150.

685.3.02 Equipment

Maintain and use the following equipment for this work so as not to threaten anyone's safety or health.

- Blasting/cleaning equipment
- Supporting traffic control devices, such as arrow boards, signs, barricades, cones, etc., according to the Traffic Control Section of the Contract and the MUTCD

A. Environmental Protection

Provide blasting equipment with either of the following environmental protections:

- An enclosure to keep dust from escaping into the surrounding area
- Water spraying equipment that encircles the blast nozzle(s) to suppress the dust created by the blasting operation

B. Protective Devices

Provide and have personnel use eye and hearing protection devices when working near the blasting operation.

Also, provide personnel with respirators (with appropriate filters) or with forced air hoods when working in dust-contaminated areas.